U.S. DEPARTMENT OF AGRICULTURE BUREAU OF BIOLOGICAL SURVEY

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FIELD DIARY

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Pennsylvanier col Kentweley

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1 8 1 10 8

Hotes for home + fuld 1924 + 1930. Verron Bailey 1834 Kalorawa Road, October 1, 1929 arrived in Washington at 3:45 PM on C+O from Transfort Kentucket after a summer at the Grave Canger and truth & California ruturu big Oklahowa City od Mannoth Cave In craxing The nountains by White Sulphus Eprings The colors of forest thes were brillant, but the was searchy a trace of athur Color in The low country east or must of The mornitains The climate at Marwoll Cowes and at Washington seems to be about the same No frost and weather up to act. 2, Then a little colder and prosty nights soon after

Oct. 13, Several party mights how coloridup the hus heartifully around Washington and the woods are at this most brilliant serial. Oct. 17 - gave Tolk on homed toals of the meeting of the Vivarian Society multing a room 43 at Wattinal Museum Det. 14 - attended conference on boundaries of graves Campon National Park at Major Stugets office in Fourt Selvie Bld. with Dr. Bell of C. Wheriany Cet. 21 Heard betweed Comos Club by Dilue of great Evenery, Very good.

Oct. 22 Went to muling 4 9 0 11 at Philadelphia, stopping at Bunjavine Franklin holl of Muling nutings for 3 days at Phil. Dead. Nat. Sei. Florence was ilreted a Fillows of the Union, the first woman to be made a fellow as she was The first vowam member of the Union In its early days. Oct. 25 - Returned to Weshington Oct. 28, Rywood neownedstains for enlarging boundary of frank Canyon Notional Park to give standing room for now wild life on both north of senth richs of gravel Camper of inside of park boundaries.

Mov. 5 Porekod up for trips to northern Pennsylvania to study dur forage conditions
Whols H. D. Ruhl of The Consulting depoint at tomaing, Miels. It objections of opining Mapping seaton on bavers hely oping at 1.36 M. Christer 9:50 PM. Coll and chart with province of a sharp frost before woring. Leaves worthy your pour trees. Went to Penn Harristung where a doubt room with 2 bedsed a both cost us 7 m for two.

Le. D. Rearisk, anderson Creek, Pa. Lerry & Jefferson. Widix Run. Davis, Nov. G. Went over to game Department of saw J.J. Slauthers, Les Luttenger, Dr. Winceoff, and S. W. D. March arrived it 11:15 all and we started as soon on he arrived for State Cally, Clearfield Mr. Z. D. Reasid 10 places Stopped at State College charge of Mutation is planning to fuel the young dies Lawrel cel Rhodudson & test poison qualities. He bas 13 houtiful realthy favors, deathe and tame welly for the experiment. We talked over methods of all angles of the test and dur management in general-Got supper at Charfield as vaclud Reasides of & PM.

Nov. 7. prove over to game rifuge No. 24 an Marquitto Creek al explored over that country titel after voor. This is a light plotian country, once a woveleyof firest of white fines of hurbel but all out out busined over antif very open fut with much grass, larger and growth for dut at ell at ground and beauts of ducks. Eweral fig haves ponds are full of fine trout as Stony Jefferson, Repigo kupy is trapping of got today of four skinds getterday of bus a portum alto a live great horized owl.

Came buch to No. 2 at Right aroud by Maddix Run of Chystal Springs Camp, In all 54 miles today. Country 107 dus, of which only two were bucks With viroby hasus. They were wastly does with The hunting searon opens due. 2 for pueles only of will not greather reduced the very land, umber of due to blanthebrets exprets, a killy 20 000. very dry of slant growth hos hem slight. Thereary no acorns or muts or hision of the deer are in quat danger of a severe with pollar

Grisoly Bear atteck J.J. Slautterbook Tells m of a hear attacking Dr. Penrase, Pros. of The Pa. Jame Com. on a hunting hip in the Rocky MM. afort 1917. The Dr. went out in camp along reliently was him and obst its wounded it so it began to cry; In a minte the worther affected and came at him, He shot several times only vouvding her ad as she can close he climbed outs a rock, but got hold y his head but both fell and balled down of the sock. on the fall and his gum was knocked out of his boald. at the bottom the oldwer got up of struck him a couple of times of started for the clibs. He grobbed

his gan od she returned and

witter up in his wanterigt -

Coffed him again, then went on to the cubs. Gettinghis own ready he shot cold killed her all thempillet the others cab, so be not thempillet the others cab, so be not them all. There crawled to comp and was laken to a hospital and got well. Slaughter week saw him while still lawe the pollowing summer but owns he did not like to talk about the irreductor The important Thing is that the ald bear Shiporathly attered him when the cut was heart.

Hov. 5. Explosed asard the Game Repair Up. 2 ed Forest
Mersery and on the Irreday
Story Creek, they drove over to
Jame Repair to 1 in Cutter Co.

I have there to 1 in Cutter Co.

I have there to dock Hoven
where we staid all night.

Saw few dus but hughed
the best deer Range where ford
is seased for the world; and
wany dust will staire if there
is due and all stairs if there
is due and all stairs if there
is due and all stairs if there
is due they way but there are
no busies or good winter pool.
The grave will list on buds and
cutting and way come through
all right. There is no shorting
this fact.

Hove 9 Drove from Look Hoven to Mifflinding of their over to Refugi no. 23 on Penn Cruk ed tramped over The country there. Foundsigns of tuky, dur of Agricers of this; a good bear cautry. Eight bear love bunkilled herd sing the first of the worthst work will be killed. Zew some grave but There are no agoms or noits or berices cal dies book is also reques: Cave and got but pear it Eptisieus, Pipistullus and two species of Myolis. Probably 25 buts Lemperature of Case 45 to bid. said to be 45 air daup and rate by wet.

Nov. 10, Returned to Washington at 11:55 am cof packed up for next tup to Warm Springs Verginia del Mamotte Cove Kentwely. Clear out cold. Not. 11. Starte of 8 all with Silver in his Arody Cer for Warrykings, Va., to see the hour tropper suployed their to protect the dut Dione Through Falls Church, Luray, Harmionburg to Warm Springs 210 miles over wastly just awarm day of very pleasant hip. The leaves are all off the hier enort has that starf on all winter, but phaseng pieture.

Stopped at Luray Caves that was told that therowers huts in it so disport go in. The same at Blue Grattoes, to at bath places they told us they were buts and rower to the same of the same at the same of the sa I the little known caves.

Went woo Blowing Cave
in Arindy gulch but found
we bats. The sweet with well i hid of mit. wind coning int were as the Etopped at ilasurpring. stopped aut oping

Nov. 12, Went with Chency to his cat Trups along The top of Warm Springs Mountain ridge north of Warnisprings Caught nothing but where he had caught 4 Coon, skunk, Spilogal of turky buspards.
Lift that son top of sides of two places, the falthest north at Bear Rocks. In PM went to traps which equalit one dece bobeat at dur careas on Jan Savetrary ord found a young passur. Ju evering went to motion of local country game protection a country bout bouts. Saw Haite and See The two wardens we went will last ofring.

Falked to Them on gang management in Permisiponing and on the needs of Virginia in game consendationed wanagement Had a swall attendence but considerably interest was obown and wary questions asked has caught 6 hobeats, 10 grant lotes, some coon Two efelogale, Hasout four trap lines or goes Had to take up his traps breaux the Glay hunting toworrow or nest day of the traps out. do not wort any

Nov. 19 Went with Chency another trap ling on Warm Spring Ridge south of Warmspring and thode up the line of 15 hops caught only one little door but saw where he bool caughte a sumber of fores and other things but The little coon had northy acoms in its stowach from the little arange weated acome of the turkly oak, The only acous found in any abundance this year. They grow an bushes 2 to of but high on tops of the ridge only were brainly localed with nuts. I puly two perduts full to send to Pomesphrina Left Clifton Forge at 9 PM.

Nov. 14 wake up ander low country of West Virginia, raines of pagy to I call vot reminelli-Reached Louisville at 10:55 au, nausformal to I M Clife ad waited till IPM for trains to Cave City, arrived 4:30 P.M. arrivelat Warm and cloudy.

Nov. 15, at Cave City, Ky. got bick Kivel addione to Long Cave for both, formel Their abundant on The cost of the regular but soon at left of wain tunnel where a few were found in april and Elptimber. Probably 10to hanging on roof This woon of in punches and long rows along the enades on the ceiling. Little nubbly calcite formations along the ceases afford furnity footing for the fots to cling to but often the hook This toenails into the edge of a crock - The live stone - Some were in clusters as sows and others singly or in two sor Threes. In places the citing was low so I dould puch them off with my bands or set up the Camera close evough pri a

apparently all were Myotis likelygus exapt a dozen or two dozen Pipistrellus woftens Faither hack along the They were hanging to the hig Cilling in about the rame abundance nearly to the first dup hole where the ladders of down of the Tother side, I marly hard a nule back from the cutraires. Here were fully another thousand and probably more, making against a pew dozen in Expl. was 54 in both copies and Most of the bats were cold all torping and some were selvered all over with dew from conduced waisture

flishlight on their and talking near their source figure to move about and a few to flag. Infact a few were seen flying when we first went in but when the light was held as them they soon progra to ripst now and new papidly until They beams linker enough to stretch a wing or by and finally to sly. Others were not effected by light in the short tint 2 could watch them and surrived cold and wationless through my flushlight photographes. The Pipistrellus subflovus visit were absolutely toping and shall to the would but when put in The bag with Motos

The pipistullus, all hung singly al were worthy in the back and of the left hard bot some beyond the Myotis. No difference of waisture or tempolature earled for noticed in this corver nas any maken for This choice of in first and got faithest back. They were silent while wany of the myotis were squakingent waking fittly mises all the time apparently these in The bundes were trying to get fixed so they would be lonfortable of rot too esqualed. fired an aux load into a bunch on The wood high our head to see if they were the same and brought down 14, Finales al & females at our shot, showing That the sixes swest together in class brushes another obot into a bunch on the roof of Dixon laws frought down a male of two finales of Myotis leseifugues and Three males of Mythis radalis. but this two spices are so much alike They could easily mistake their company. I can not detect any deference in oder to either. all were fat, love furriel ad in prince condition for winter hibernation. bags at law City flew away Through the bantue Tops and probably returned to the sawa Cares.

Then went to old Manuroth Cave but was told by Roy Hunt that these were no buts in it so I diel rot go in. Went to Disan Caus, a quarter of a mily from all Mumoth Entrance and found a good warm fats hanging to the wood all the way buch to the evel, less than a quester of a mile. Estimated althart all high upon the wol. fired into our bunch and brough down three Myotis wafugus and Three Myotis Localis me another burch brought down not neognize my opicies on the ciling but preside These two pridomitte as they did last Sept. here.

Mean the buch end of the Cave a funch of probably 50 in a circular wars were not tarkied but constantly woving and a guesking and when a powerful flosh light a powerful flash light was thrown on them warm flow and a short at the food Trumaning prought down only rist all flow away. the temperature here was 54° 7. and humdity about 100° Others were peared aqueaking on The way and wany diese clusters probably kept the Very little grave could be found involes the tats where must dusely gathered as They soon egget the food they contain and get no non mutisthey have in spring

nov. 16 Saturday of Cave City -Went tot Collassal Cavena whee bots are more numerous than any other cave I have seen in this region. They extend back balf a mile and into swort side scrows and probably total 5000 02 mori. I deounted 85 us our littly bunch and a dezen such bunches were in sight busides long lives and little buck They are westly Mystis hicifugus cel sadalis in about equal numbers with a few hundred scattered single Pepistellus sufforms no difference ent aboide of location could be seen although - some rooms sadalis prodominate and in others lucifiques and sometimes

with king in the same buch. on many places they were only partially topied and vot very edd. Hore in deuse round punches were wort cetive generally only mage in wotion. a few flew close with when we came The flash light orl warry viprated rapidly when the light was held he there for a minte Others and especially the single tots were often so tospid They weel vo response to light or hing hendled! The Pipistellus were wort sandly aslep al nost often covered with a dust cent of silvery les. The therwoweter with went down to 500 but on the bodies of Those in clusters

gave a truperature of 54° 7. In summer the carolin said The humility was be about 100° Tho, the growd and sloves generally seem dry. There are some strings of wany dripping places of some streams farther down so there is plenty of noisture In places there is condused watstury on the enling. Bots fully tospid how the eyes or wouths closed and earl erret and the todies cold and almost rigid, the wings tolded closs against the states of tails hird but. When caught at held

Formed the obclitor of an Estaces fuseus in a side themsel not far beyond the first shring. It had been dead about a year of was wanted gone to fixees

any pellets to deposit,
all are fot all in good fur
a fun of the both hang on side
walls quist fow do one but work
are an the works overhead
fut of the withing nached by band.
What of the patis were bujured
any possible trace of light,
as the outlet is up a vacue
stainway and the light does
not puthole into the first
soon of the love.

There is another entrance
to the case obout 3 miles
away but it is not used
and fully know how far the
best old go. but they were
as far both or what went.

obout buy a mile.

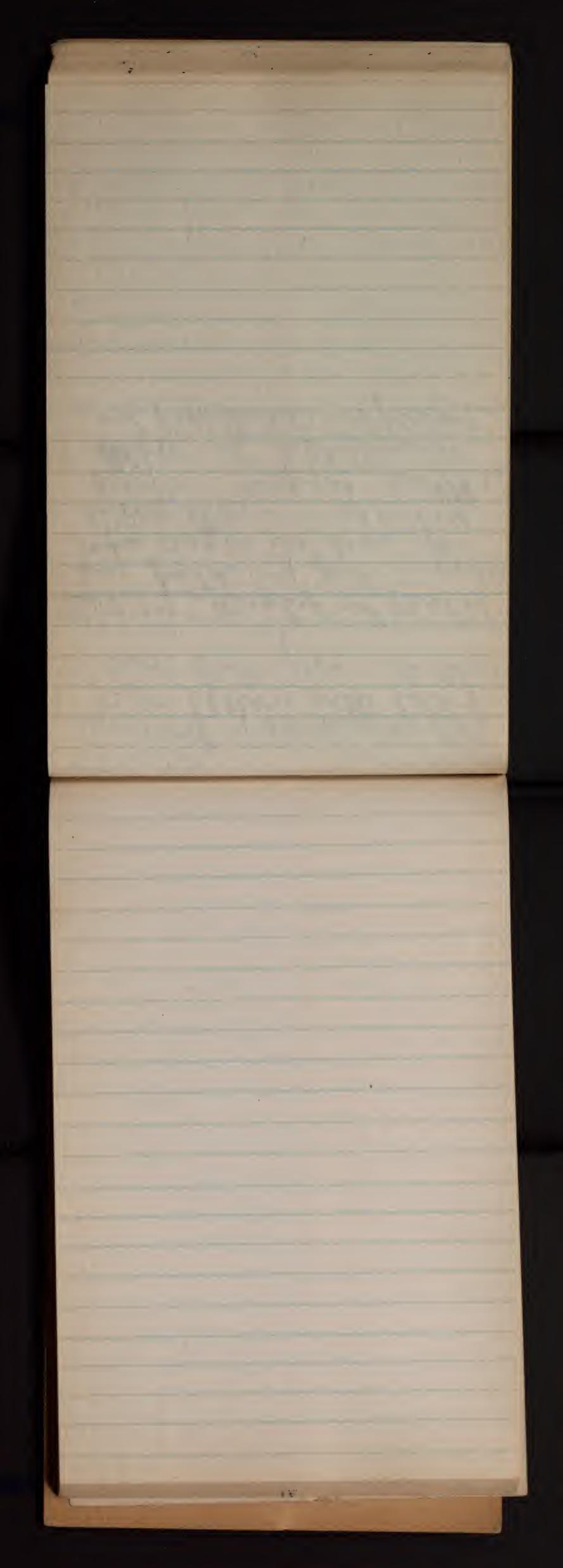
Birds Collossal Coverns, Nov. 14. Rainedall day but therwere lots of birds in the woods in obelting places, sav total Juneas abu! True spacrows Com. Tox alpanous white throats? apparently ear Purple finelus Chevines Christiadus a few hufted to Mindowlands, a flock in field Flielces Pilisted woodpreher I hard Robins ear ~ Aluebilds Wild turkeny Diele Though aug he kows of their bring best not over Cave says they were ther only 5 years ago.

The Goys at Collesof Our basi skills of 2 gray fores, about 20 opersons adome Tot squidel.

Rhiv red forces are said to be
here and a few bofeats

one dies was seen two or three years ago.

Birds at Man the Cave, nov. 17 Tucky buggards Mourning Doves Piliated Woodpicher ward Houry Red head Con. Flicker Nuthatels Cidas berds Humas Chewurk Whiteyelvers Cathud Robin Moo. 17 Left Cave City Kurtueley - 9:30 km, Cloudy + froque Graebles, flock of 200 in yards Song ophstands Carobina wrens heard singing Mocking bisas Foward Elizabellitown Sparrow Name 2 Datehicks in food by Ry. 1 Warshhaush over field, Louisville Ky. 11 all north Verson And, 3 PM Cinemnatti, Oh. 5 PM A: In at Man Min217 II. Carr NOV. 18 grived of Washington De, 9:30 auch with lots of live bots from The Caves Nov. 19 Weighed and larded way balk of put in muchus tops cages in boses for Hibernation - 4 species / Myolis, Incipages saddis dibis if septiatrovalis and Presistalles supplavas.



United States Department of Agriculture

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U. S. Department of Agriculture,

Washington, D. C.

Bureau of Biological Survey.

Myster sadelis , Dit	ou	la	o	٦, ١	Nov. 13.
1.8%	85				
2 &		34			
8.0°	81	34	9	13	
Myster megagine					Nov. 15
48		34			
54	-	34			
6 P	88	37	9	/2	
Long lave.					
Motis lucifugus					10015
72	90	38	9	13	
88	83	33	8	12	
93	85	33	9	12	
					1

